



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

Cross Aluminum Products Inc.  
1770 Mayflower Road  
Niles, MI 49120

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

### DESCRIPTION: Series FLT400 Aluminum Outswing Glazed Doors (Thermally Broken)-L.M.I.

**APPROVAL DOCUMENT:** Drawing No. 1862, titled "FLT-400 Thermal Aluminum Glazed Impact Outswing Door", sheets 1 through 11 of 11, dated SEP 17, 2013, prepared by W. W. Schaefer Engineering,, signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

### MISSILE IMPACT RATING: Large Missile Impact Resistant

#### Limitations:

1. See table in sheet 1 for Design Pressure Vs. unit Sizes.
2. See lock option 1 (3-point Von Duprin SVR Panic exit w/ KR9954 mullion) in sheet 2, the Maximum Design Pressure DP is limited to  $\pm 60$  PSF and Single door is not applicable. See lock option 2 (Dead bolt (grade 1 w/ 1" throw) + Surface bolts in sheet 3. See lock option 3 (2-Point Sargent CVR panic) in sheet 4.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**



NOA No. 13-0624.05  
Expiration Date: September 26, 2018  
Approval Date: September 26, 2013  
Page 1

9/24/13

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. 1862, titled "FLT-400 Thermal Aluminum Glazed Impact Outswing Door", sheets 1 through 11 of 11, dated SEP 17, 2013, prepared by W. W. Schaefer Engineering, signed and sealed by Warren W. Schaefer, P.E.

**B. TESTS**

1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94(Not performed)  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

Along with marked-up drawings and installation diagram of Alum. Outswing glazed/opaque Entrance Doors, prepared by Architectural Testing, Test Report No. C7190.01-602-18, dated 06/03/13, signed and sealed by Shawn G. Collins, P.E.

Note: Clarification letter of SVR panic engagement, dated AUG 28, 2013, issued by Architectural Testing, signed by John Bordagaray, Director, ATI.

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC-2010, prepared by W. W. Schaefer Engineering, dated May 22, 2013 and last revised on AUG 06, 2013, signed and sealed by Warren W. Schaefer, P.E.
2. Glazing complies w/ ASTM E-1300-02 & -04

**D. QUALITY ASSURANCE**

1. Miami Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**


1. Notice of Acceptance No. 12-1231.09 issued to Eastman Chemical Company, (Former Solutia Inc.) for "Saflex HP: Clear & color glass interlayer", expiring on 04/14/18.
2. Notice of Acceptance No. 11-0926.07 issued to Dyplast Products, LLC, (Former Apache Product Co.) for "Expanded Polystyrene Insulation", expiring on 01/11/17.
3. Test report # 61261.01-106-18 dated 01/04/06, issued by Architectural Testing for Polyamide I-strut per ASTM D-2843 and ASTM D635, issued to Technoform Group.
4. Tensile test report # ETC-07-1043-2008.0 dated 09/18/07, issued by ETC Laboratories for Strut material, issued to Technoform Group.

**F. STATEMENTS**

1. Statement letter of conformance to FBC 2010 and letter of no financial interest, prepared by W. W. Schaefer Engineering, dated APR 24, 2013, signed and sealed by Warren W. Schaefer, P.E.
2. Lab compliance as part of the above referenced test report.

**G. OTHER**

1. Test proposals # 11-0662-R, dated 02/16/12 approved by PERA.

  
Ishaq I. Chanda, P.E.  
Product Control Examiner  
NOA No. 13-0624.05  
Expiration Date: September 26, 2018  
Approval Date: September 26, 2013

1. THESE DOOR SYSTEMS HAVE BEEN DESIGNED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT DOORS.
5. THESE DOOR SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE DOORS.
7. ALL ANCHORS SECURING DOOR FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF  $K_d = 0.85$  MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR  $C_d = 1.6$  WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.

PANEL TYPE	HARDWARE REQUIRED
DOOR WITH LOCK OPTION 1	
ACTIVE PANEL	3-POINT PANIC LOCK DEVICE (ITEM 31)
INACTIVE PANEL	3-POINT PANIC LOCK DEVICE (ITEM 31)
DOOR WITH LOCK OPTION 2	
ACTIVE PANEL	DEAD BOLT (ITEM 35)
	PASSAGE LOCK (ITEM 36)
	TOP & BOTTOM SURFACE BOLTS (ITEM 33)
INACTIVE PANEL	TOP & BOTTOM SURFACE BOLTS (ITEM 33)
	TOP & BOTTOM FLUSH BOLTS (ITEM 34)
DOOR WITH LOCK OPTION 3	
ACTIVE PANEL	2-POINT PANIC LOCK DEVICE (ITEM 37)
	TOP & BOTTOM SURFACE BOLTS (ITEM 33)
INACTIVE PANEL	TOP & BOTTOM SURFACE BOLTS (ITEM 33)

2. ALL MANUAL FLUSH &/OR SURFACE LOCK BOLTS SHALL BE ENGAGED UPON A BUILDING LOCK-DOWN &/OR IN THE EVENT OF A SEVERE STORM THREAT

MAX. FRAME WIDTH (IN.)	MAX. FRAME HEIGHT (IN.)	ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
DOUBLE DOOR			
91 1/2	97 3/8	60.0	60.0
81 3/8	97 3/8	(1) 67.5	(1) 67.5
73 1/4	97 3/8	(1) 75.0	(1) 75.0
SINGLE DOOR			
47 5/8	97 3/8	60.0	60.0
42 3/8	97 3/8	(1) 67.5	(1) 67.5
38 1/8	97 3/8	(1) 75.0	(1) 75.0

(1) PRESSURES HIGHER THAN  $\pm 60$  PSF ARE ONLY APPLICABLE WHEN LOCK OPTION 2 &/OR 3 IS USED. WHEN LOCK OPTION 1 IS USED, ALLOWABLE PRESSURE MAY NOT EXCEED  $\pm 60$  PSF REGARDLESS OF DOOR SIZE.

HINGES ARE NOT SHOWN IN THE  
ELEVATION VIEWS DUE TO THE CHOICE  
OF THEM BEING CONTINUOUS OR  
INDIVIDUAL BUTT HINGES. WHEN BUTT  
HINGES ARE USED, THERE SHALL BE A  
TOTAL OF 4 WITH EACH DOOR PANEL  
POSITIONED 7 5/8" FROM BOTH TOP  
& BOTTOM TO HINGE CENTERLINE &  
EQUALLY SPACE BETWEEN. SEE  
APPLICABLE SECTIONS & PARTS LIST  
FOR ALL HINGE DETAIL.

**NOTE:** THESE DOOR UNITS ARE NOT APPROVED FOR USE WHERE WATER INFILTRATION RESISTANCE IS REQUIRED BY THE DOOR. UNLESS UNITS ARE INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT & THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION, UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG WHERE-BY THE OVERHANG(OH) RATIO IS EQUAL TO OR MORE THAN 1.0 PER FBC SECTION 1715.5.

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

[illegible]

OPENING TYPE (SUBSTRATE)	FRAME & MULLION PLATE TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
<b>PRIMARY FRAME SCREWS</b>			
(3) MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 2 & G=0.55)	NO. 20 SMS OR WOOD SCREW	1 1/2"	1"
MIN. 16 GA. 50 KSI METAL STUD	5/16" GR. 5 SELF TAP/DRILL SCREW	FULL	5/8"
MIN. 1/8" THK A36 STEEL	5/16" GR. 5 SELF TAP/DRILL SCREW	FULL	5/8"
MIN. 0.100" THK 6063-T5 ALUM.	5/16" GR. 5 SELF TAP/DRILL SCREW	FULL	5/8"
(4) MIN. C-90 CONCRETE FILLED BLOCK	(2) 5/16" CONCRETE SCREW	1 1/2"	2"
MIN. 2500 PSI CONCRETE	(2) 5/16" CONCRETE SCREW	1 3/4"	2"
<b>SILL SCREWS (PRIMARY &amp; SECONDARY) &amp; SECONDARY FRAME SCREWS</b>			
(3) MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 2 & G=0.55)	NO. 14 SMS OR WOOD SCREWS	1 1/2"	3/4" AT SIDES; 1" AT SILL
MIN. 16 GA. 50 KSI METAL STUD	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 0.100" THK 6063-T5 ALUM.	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
(4) MIN. C-90 CONCRETE FILLED BLOCK	(1) 1/4" CONCRETE SCREW	1 1/2"	2"
MIN. 3000 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 3/4"	2"
<b>MULLION END PLATE ANCHORS</b>			
MIN. 2500 PSI CONCRETE	(5) EXPANSION ANCHOR WITH 5/16-18 X 1 3/4" MACHINE SCREW	FULL (1 5/8")	2 1/2"
(1) 1/4" CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.). (2) 5/16" CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.) (3) 2X6 BUCKS SHALL BE OF A MINIMUM DEPTH REQUIRED TO MEET ANCHOR EDGE DISTANCE REQUIREMENTS BUT NO LESS THAN 4 1/4". (4) CONCRETE FILLED BLOCK SUBSTRATE IS NOT APPLICABLE AT HEAD AND SILL (5) EXPANSION ANCHORS SHALL BE POWERS SINGLE SHELL EXPANSION ANCHOR.			

FRAME HEAD: VERTICAL MEMBERS RUN THROUGH WHILE THE HORIZONTAL MEMBERS ARE SQUARE CUT, BUTTED AND MECHANICALLY FASTENED WITH (3) NO. 10 X 1" PHTF THROUGH THE VERTICAL MEMBER INTO THE HORIZONTAL MEMBERS SCREW SPLINES. CORNERS ARE SEALED WITH SILICONE SEALANT.

SILL: VERTICAL MEMBERS RUN THROUGH WHILE THE THRESHOLD IS SQUARE CUT, BUTTED AND SEALED WITH SILICONE SEALANT.

Approved as complying with the  
Florida Building Code  
Date SEP 26, 2013  
NOA# 13-0124.05  
Miami Dade Product Control  
By Shag J. Chan

DRAWING TITLE  
ET-400 THERMAL ALUMINIUM GLAZED IMPACT OUT-SWING DOOR

MANUFACTURER  
CROSS ALUMINUM PRODUCTS, INC.

**CONSULTANTS**  
**W. W. SCHAEFER ENGINEERING**  
**& CONSULTING, P.A. (CA 6809)**

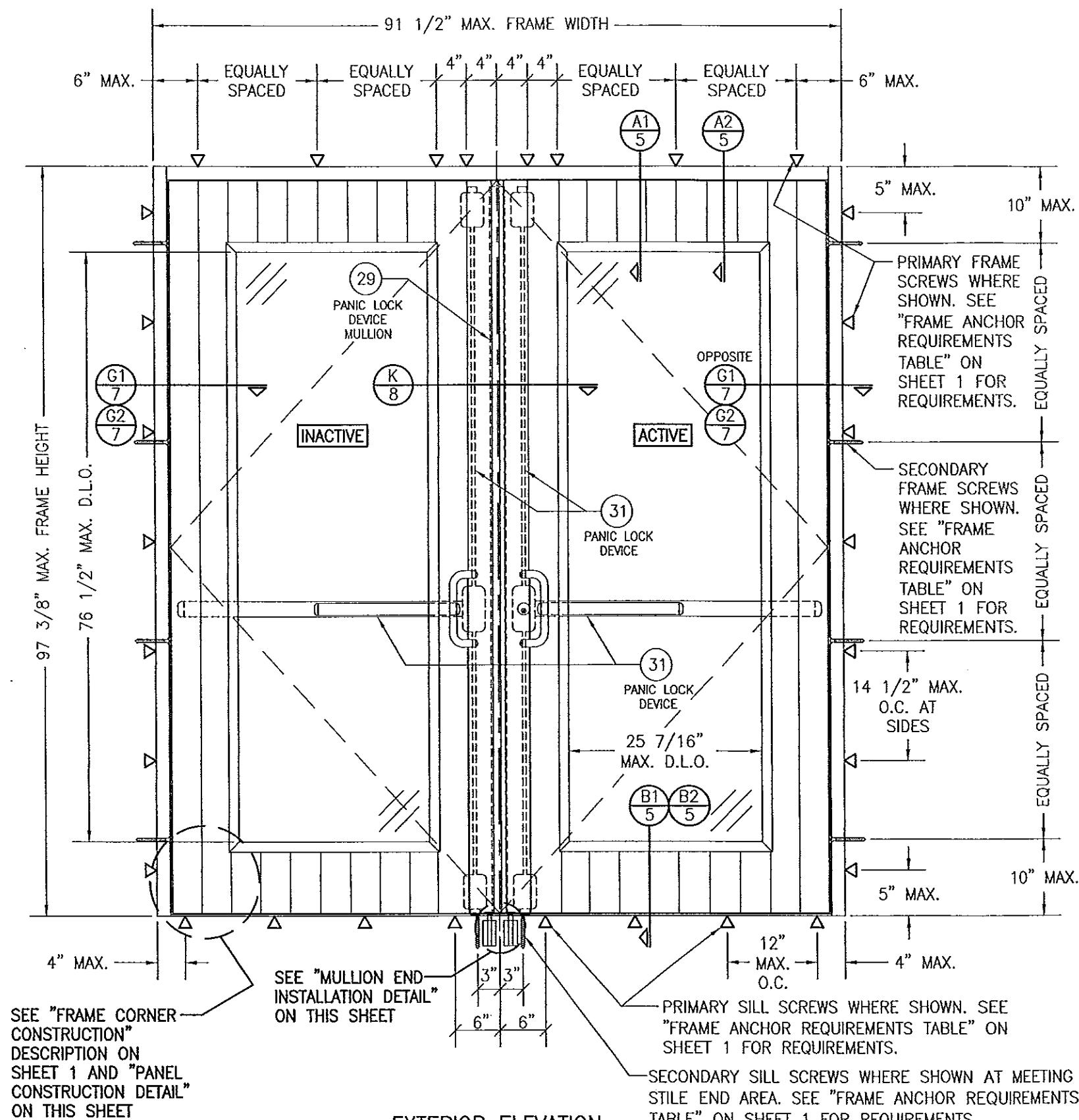
80 150TH COURT NORTH  
BEACH GARDENS, FL 33418

WARREN W. SCHAEFER, P.E.  
D E NO 4435

**CERTIFICATION**

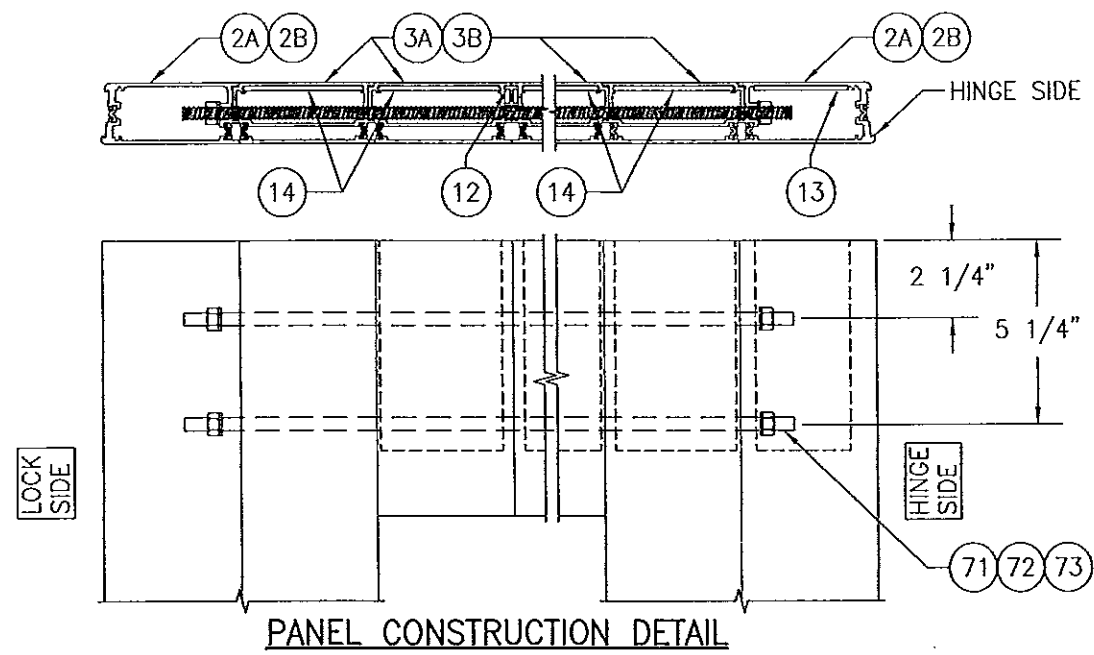
SEP 17 2013

DRAWING NO.	REV.
1862	
SHEET NO.	
1	OF 11

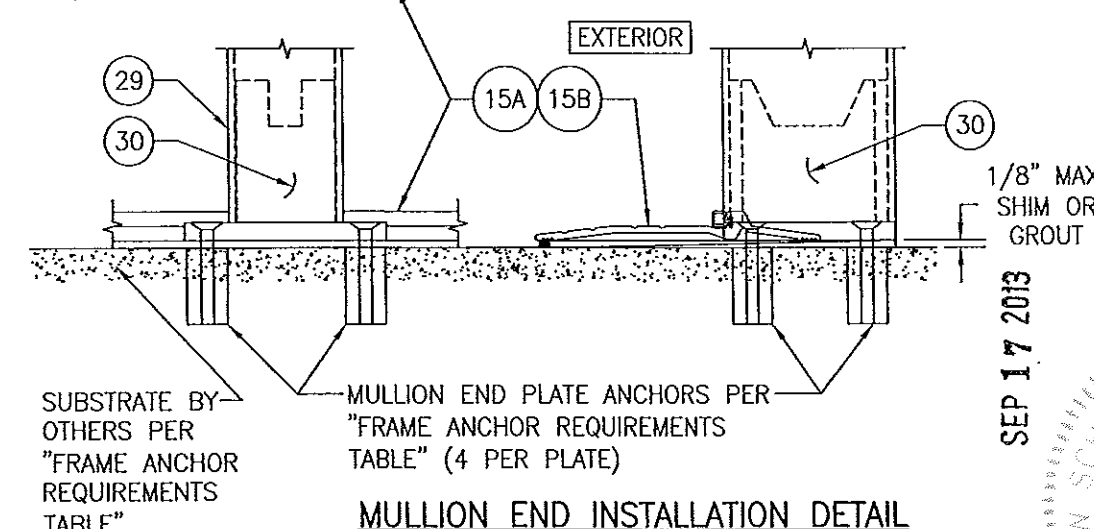
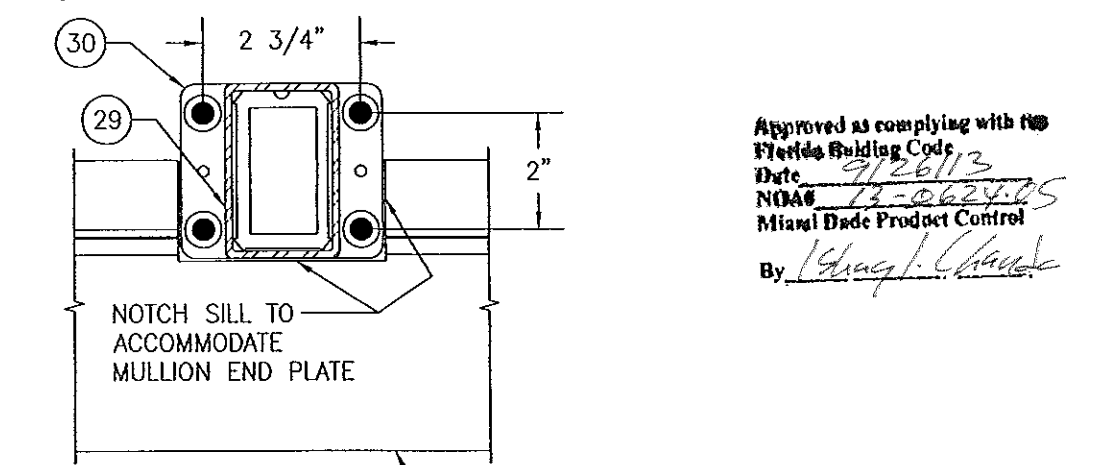


**EXTERIOR ELEVATION:  
DOUBLE DOOR WITH LOCK HARDWARE OPTION 1**

SCALE: 3/4" = 1'-0"  
(SEE TABLE ON SHEET 1 FOR LOCK OPTION REQUIREMENTS)  
NOTE: SINGLE DOOR IS NOTE APPLICABLE WITH LOCK OPTION 1

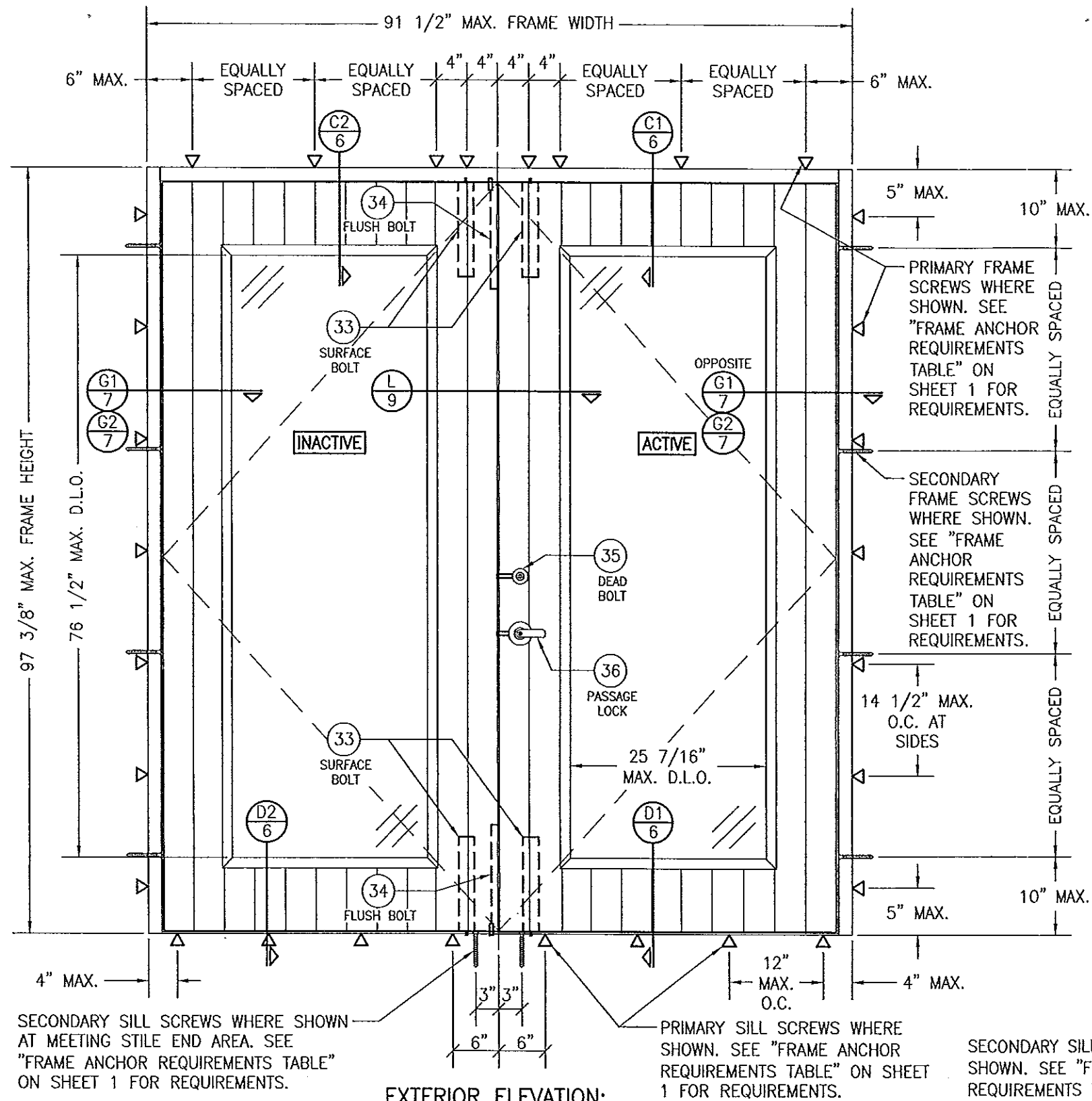


**PANEL CONSTRUCTION DETAIL**  
SCALE: N.T.S.  
(TOP OF PANEL SHOWN. BOTTOM OF PANEL IS CONSTRUCTED THE SAME)

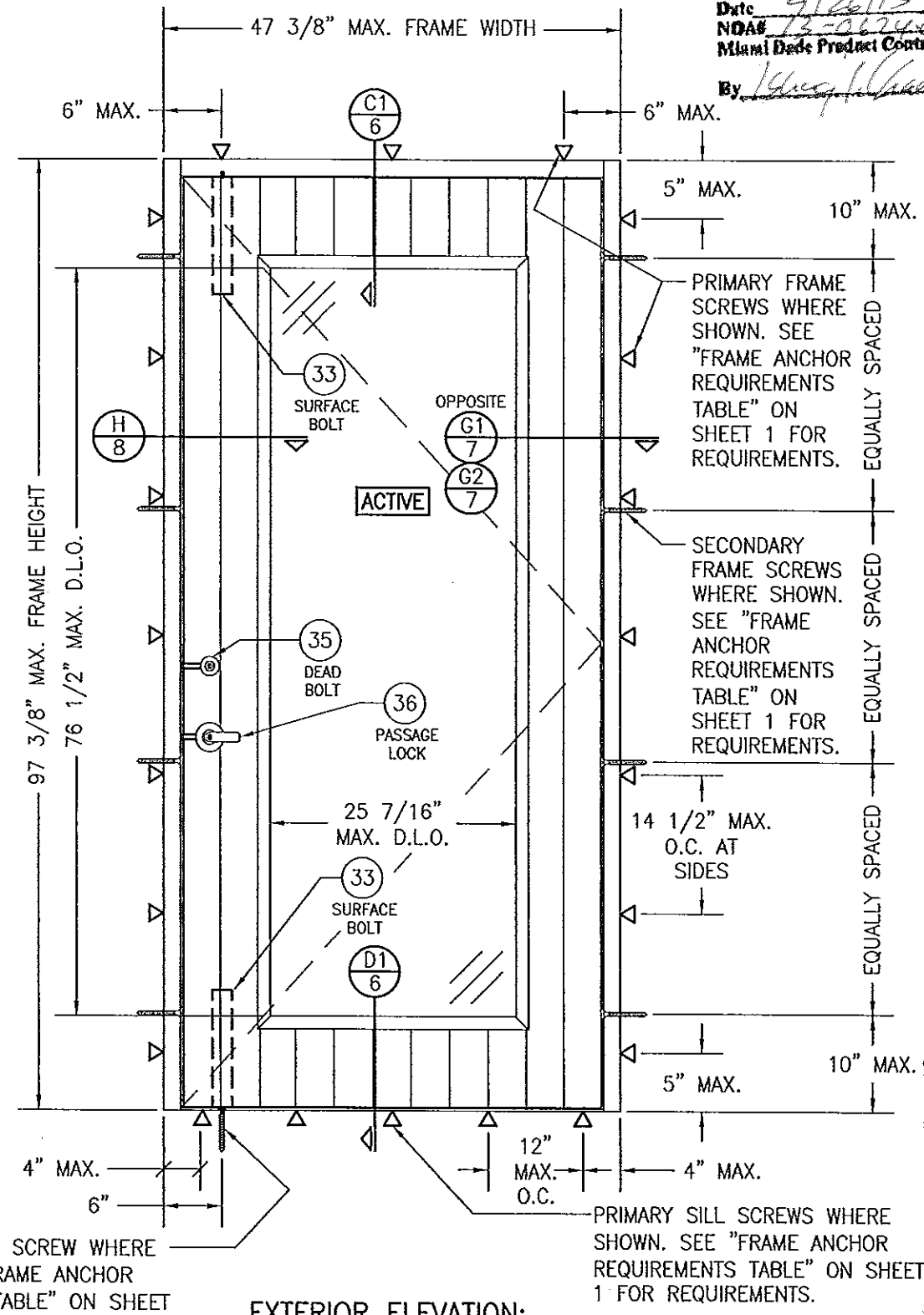


**MULLION END INSTALLATION DETAIL**  
SCALE: N.T.S.  
(DOOR PANEL NOT SHOWN FOR CLARITY)  
(FOR SILL SCREWS NOT SHOWN. SEE SECTION B1/5)

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=16	DATE: 04/11/13
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE FLT-400 THERMAL ALUMINUM GLAZED IMPACT OUT-SWING DOOR	
MANUFACTURER CROSS ALUMINUM PRODUCTS, INC. 1770 MAYFLOWER RD. NILES, MI 49120 800-806-3667	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION SEP 17 2013 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1862	REV.
SHEET NO. 2	OF 11



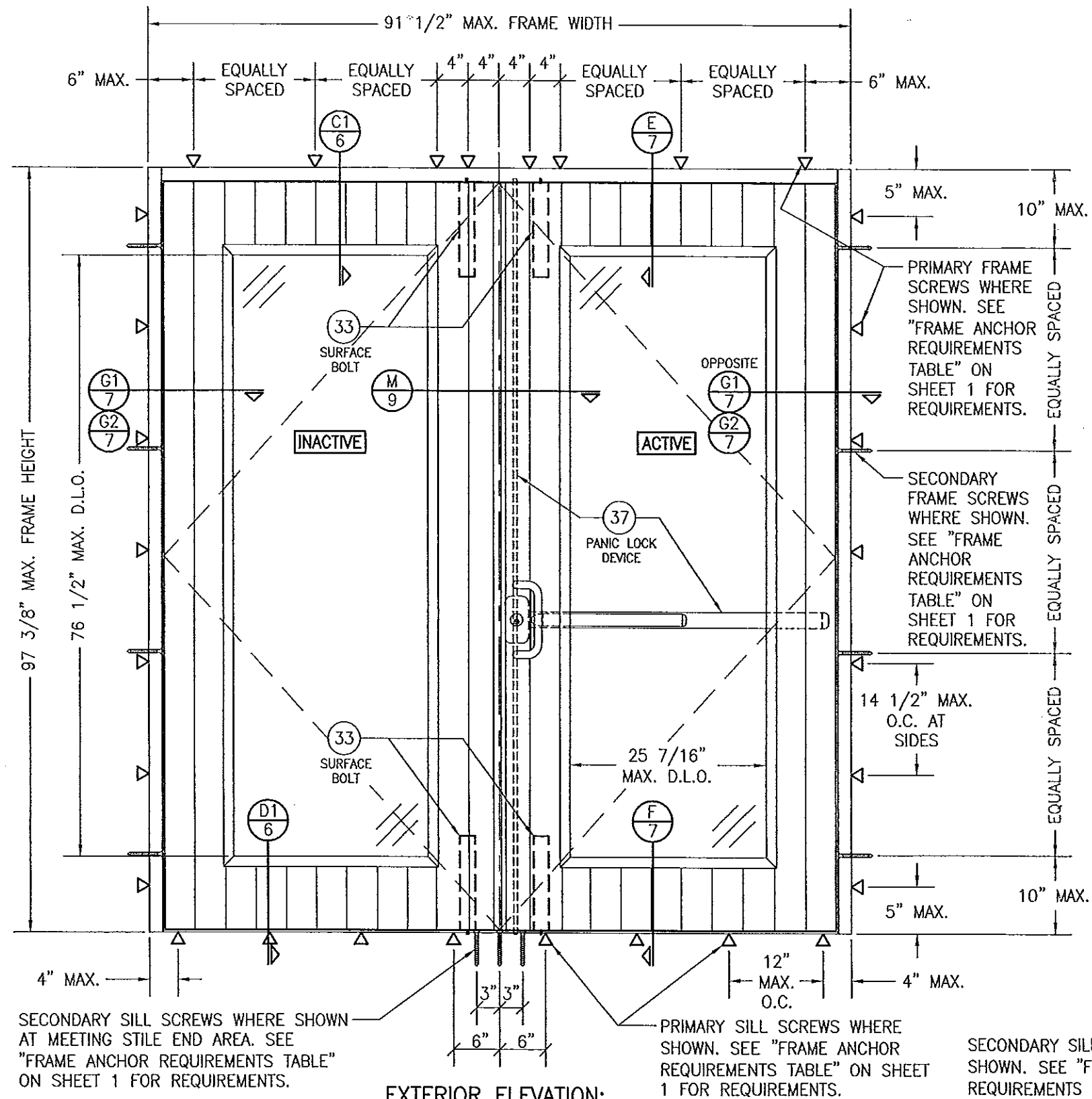
**EXTERIOR ELEVATION:  
DOUBLE DOOR WITH LOCK HARDWARE OPTION 2**  
SCALE: 3/4" = 1'-0"  
(SEE TABLE ON SHEET 1 FOR LOCK OPTION REQUIREMENTS)



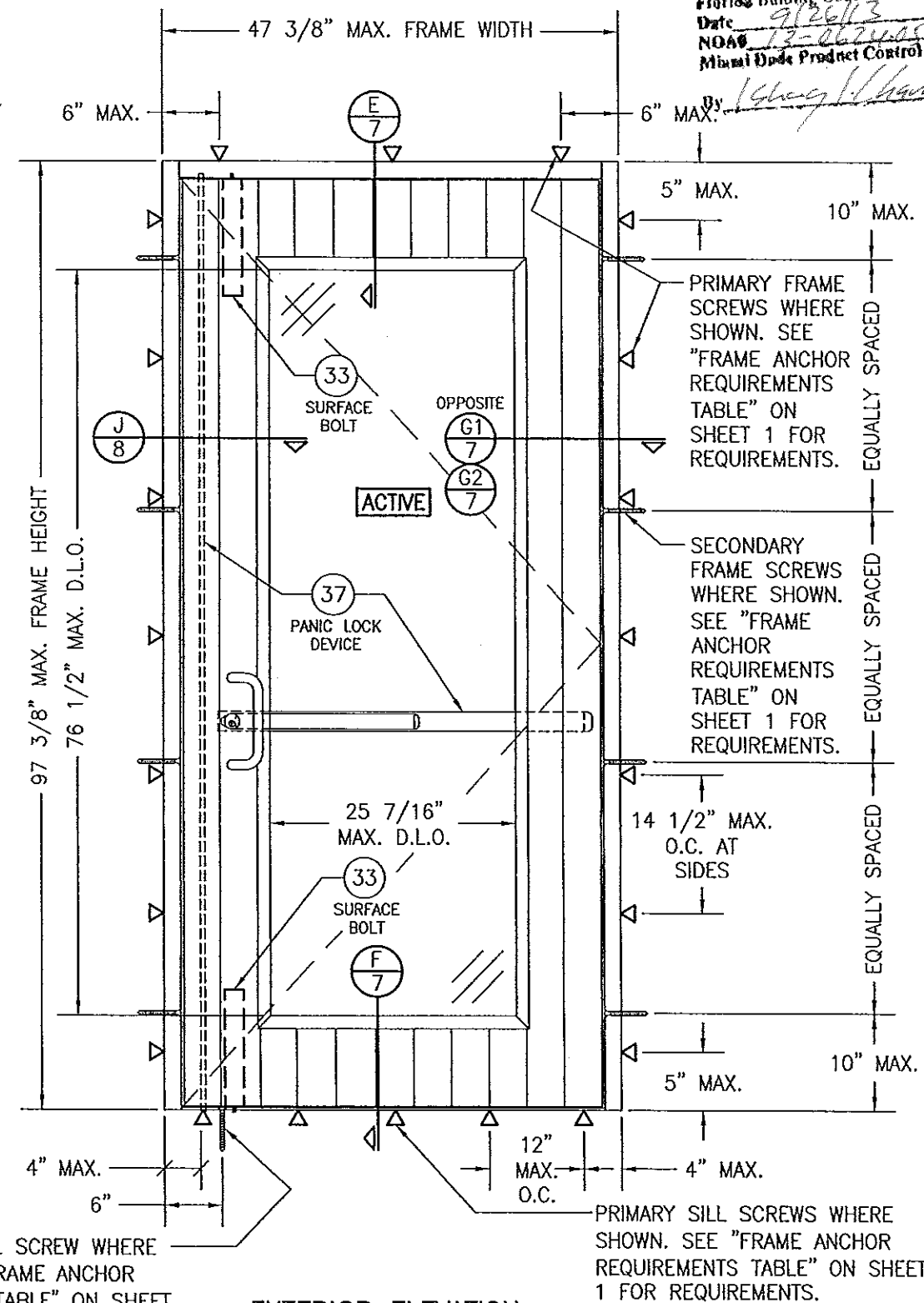
**EXTERIOR ELEVATION:  
SINGLE DOOR WITH LOCK HARDWARE OPTION 2**  
SCALE: 3/4" = 1'-0"  
(SEE TABLE ON SHEET 1 FOR LOCK OPTION REQUIREMENTS)

Approved as complying with the  
Florida Building Code  
Date 9/12/13  
NDAS 13-0624-01  
Miami Dade Product Control  
By [Signature]

DRAWN BY: W.R.U.	CHECKED BY: W.W.S.
PLOT: 1=16	DATE: 04/11/13
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE FLT-400 THERMAL ALUMINUM GLAZED IMPACT OUT-SWING DOOR	
MANUFACTURER CROSS ALUMINUM PRODUCTS, INC. 1770 MAYFLOWER RD. NILES, MI 49120 800-806-3667	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION SEP 17 2013 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1862	REV.
SHEET NO. 3	OF 11



**EXTERIOR ELEVATION:**  
**DOUBLE DOOR WITH LOCK HARDWARE OPTION 3**  
 SCALE: 3/4" = 1'-0"  
 (SEE TABLE ON SHEET 1 FOR LOCK OPTION REQUIREMENTS)

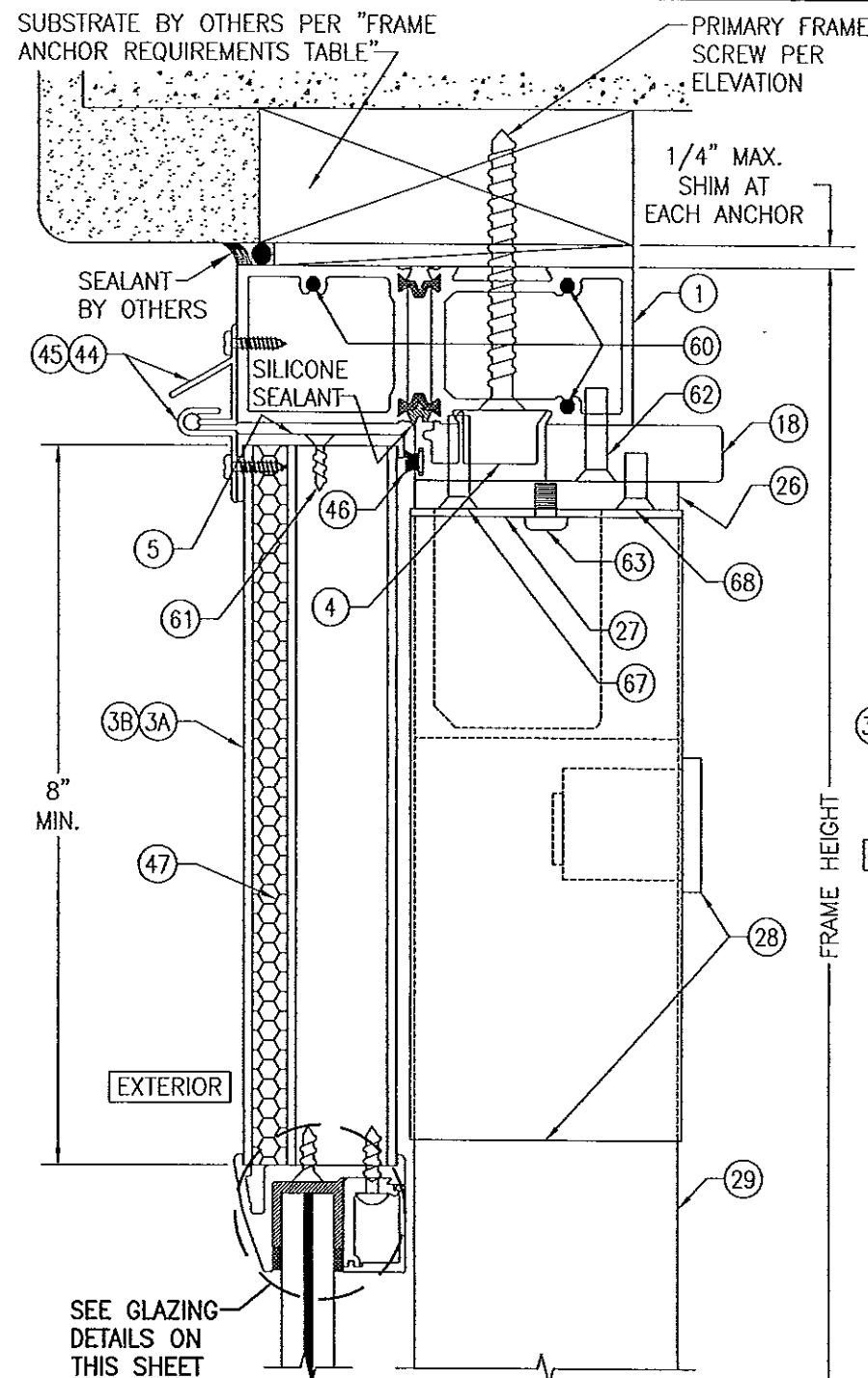


**EXTERIOR ELEVATION:**  
**SINGLE DOOR WITH LOCK HARDWARE OPTION 3**  
 SCALE: 3/4" = 1'-0"  
 (SEE TABLE ON SHEET 1 FOR LOCK OPTION REQUIREMENTS)

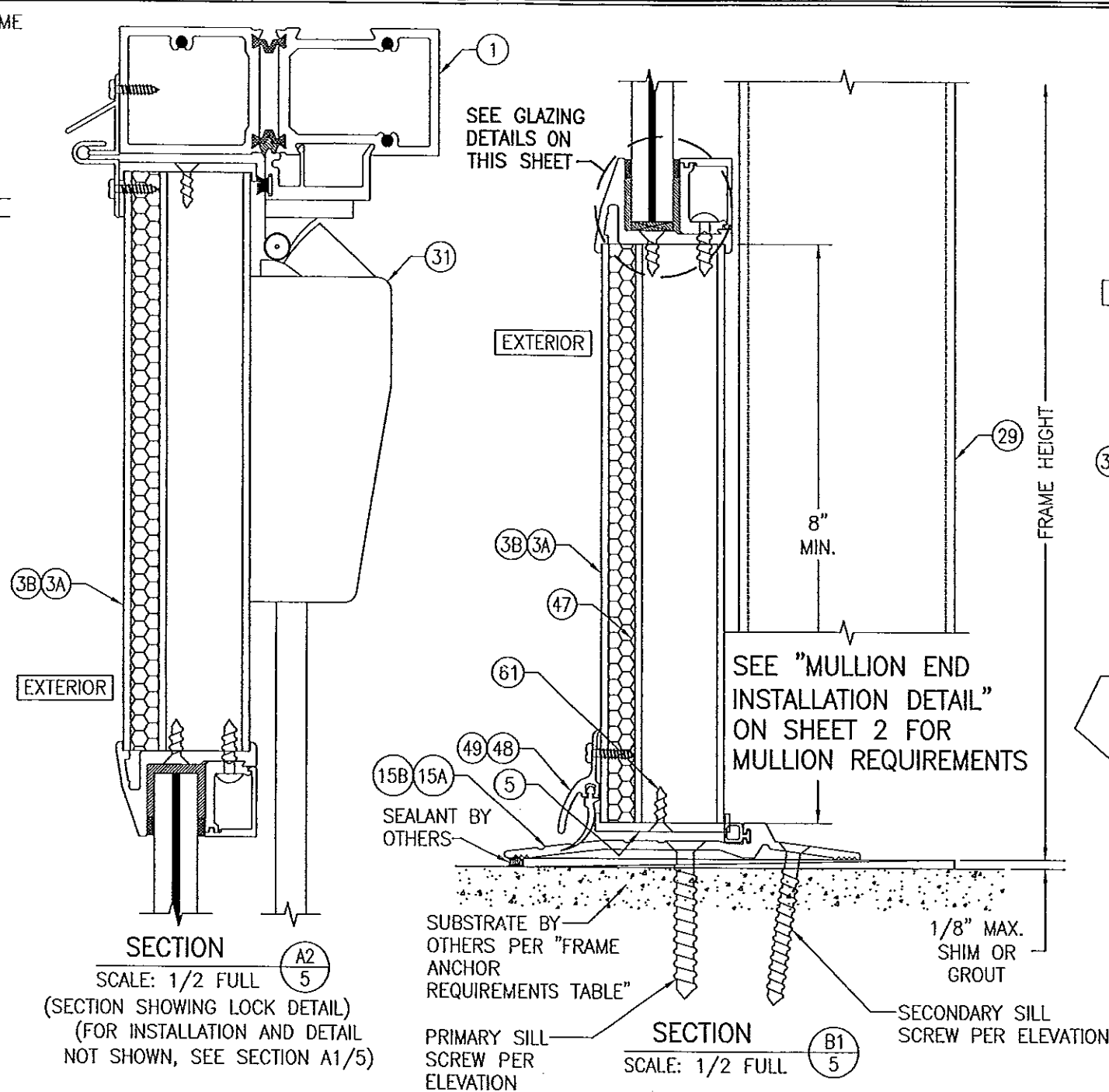
Approved as complying with the  
 Florida Building Code  
 Date 9/26/13  
 NOA# 13-062405  
 Miami Code Product Control  
 By: [Signature]

SEP 17 2013

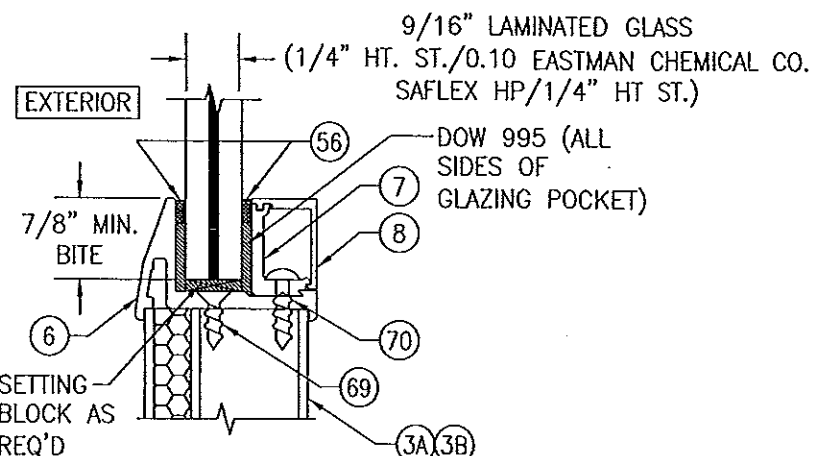
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PLOT: 1=16	DATE: 04/11/13
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE <b>FLT-400 THERMAL ALUMINUM GLAZED IMPACT OUT-SWING DOOR</b>	
MANUFACTURER <b>CROSS ALUMINUM PRODUCTS, INC.</b> 1770 MAYFLOWER RD. NILES, MI 49120 800-806-3667	
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A. (CA 6809)</b> 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION <b>SEP 17 2013</b> <b>WARREN W. SCHAEFER, P.E.</b> <b>P.E. NO. 44135</b>	
DRAWING NO. <b>1862</b>	REV.
SHEET NO. <b>4</b>	OF <b>11</b>



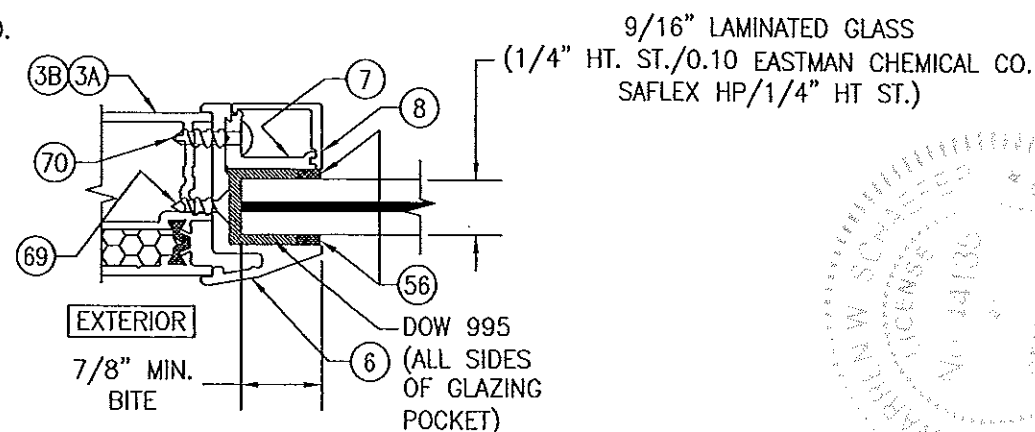
SECTION A1  
SCALE: 1/2 FULL  
(SECTION SHOWING MULLION DETAIL)



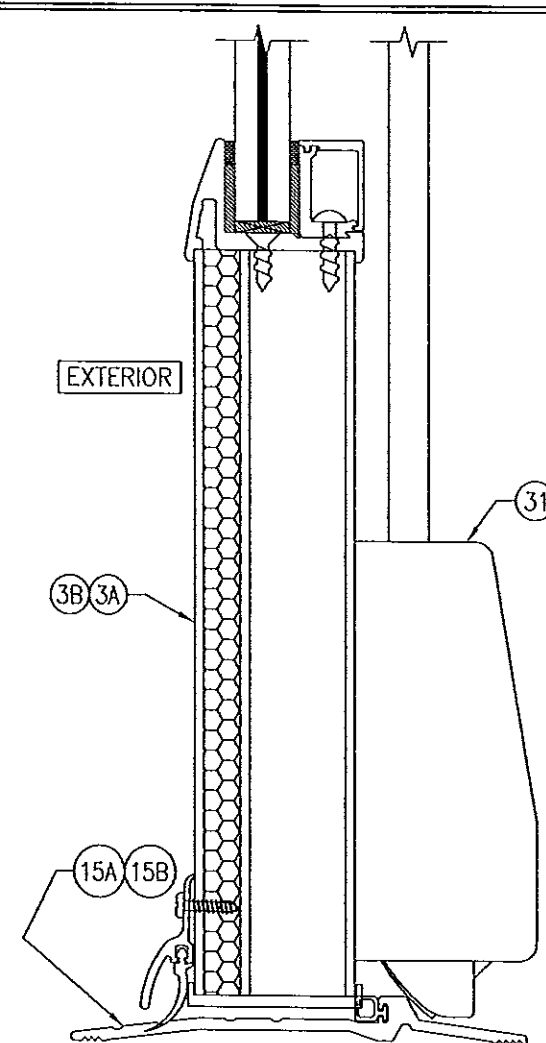
SECTION A2  
SCALE: 1/2 FULL  
(SECTION SHOWING LOCK DETAIL)  
(FOR INSTALLATION AND DETAIL NOT SHOWN, SEE SECTION A1/5)



TYPICAL GLAZING DETAIL  
AT TOP & BOTTOM



TYPICAL GLAZING DETAIL  
AT SIDES



SECTION B2  
SCALE: 1/2 FULL  
(FOR INSTALLATION AND DETAIL NOT SHOWN, SEE SECTION B1/5)

Approved as complying with the  
Florida Building Code  
Date 9/16/13  
NOAE 13-0624-01  
Miami Dade Product Control  
By [Signature]

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 04/11/13	
NO.	REVISION DESCRIPTION	BY	DATE
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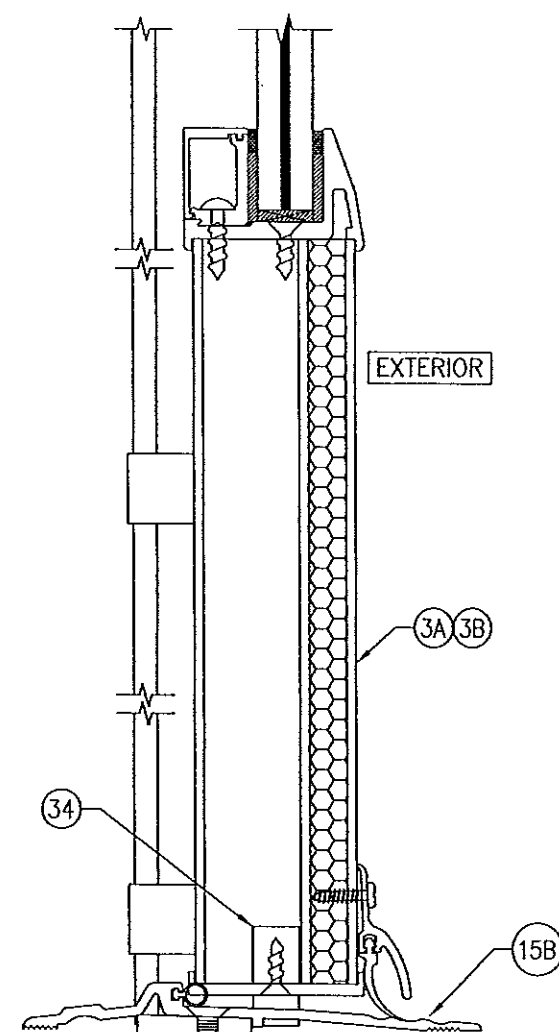
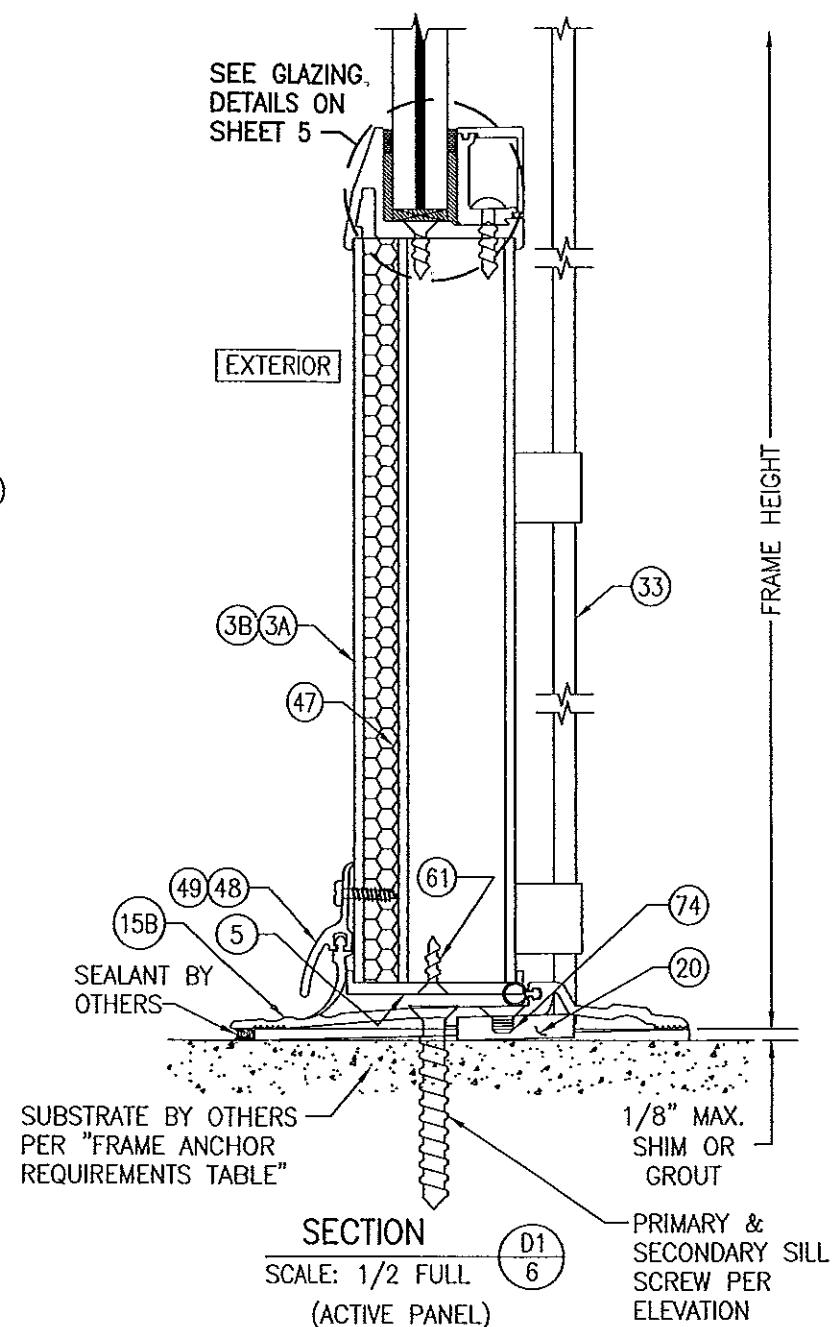
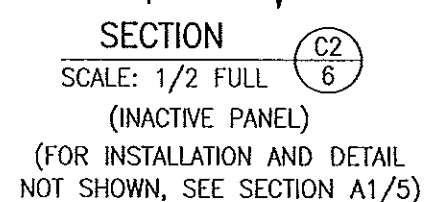
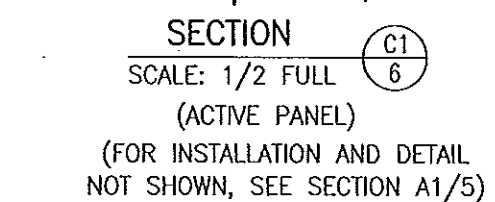
DRAWING TITLE: FLT-400 THERMAL ALUMINUM GLAZED IMPACT OUT-SWING DOOR

MANUFACTURER: CROSS ALUMINUM PRODUCTS, INC.  
1770 MAYFLOWER RD.  
NILES, MI 49120  
800-806-3667

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)  
7480 150TH COURT NORTH  
PALM BEACH GARDENS, FL 33418  
PHONE: 561-744-3424


CERTIFICATION: SEP 17 2013  
WARREN W. SCHAEFER, P.E.  
P.E. NO. 44135  
DRAWING NO. 1862  
SHEET NO. 5 OF 11



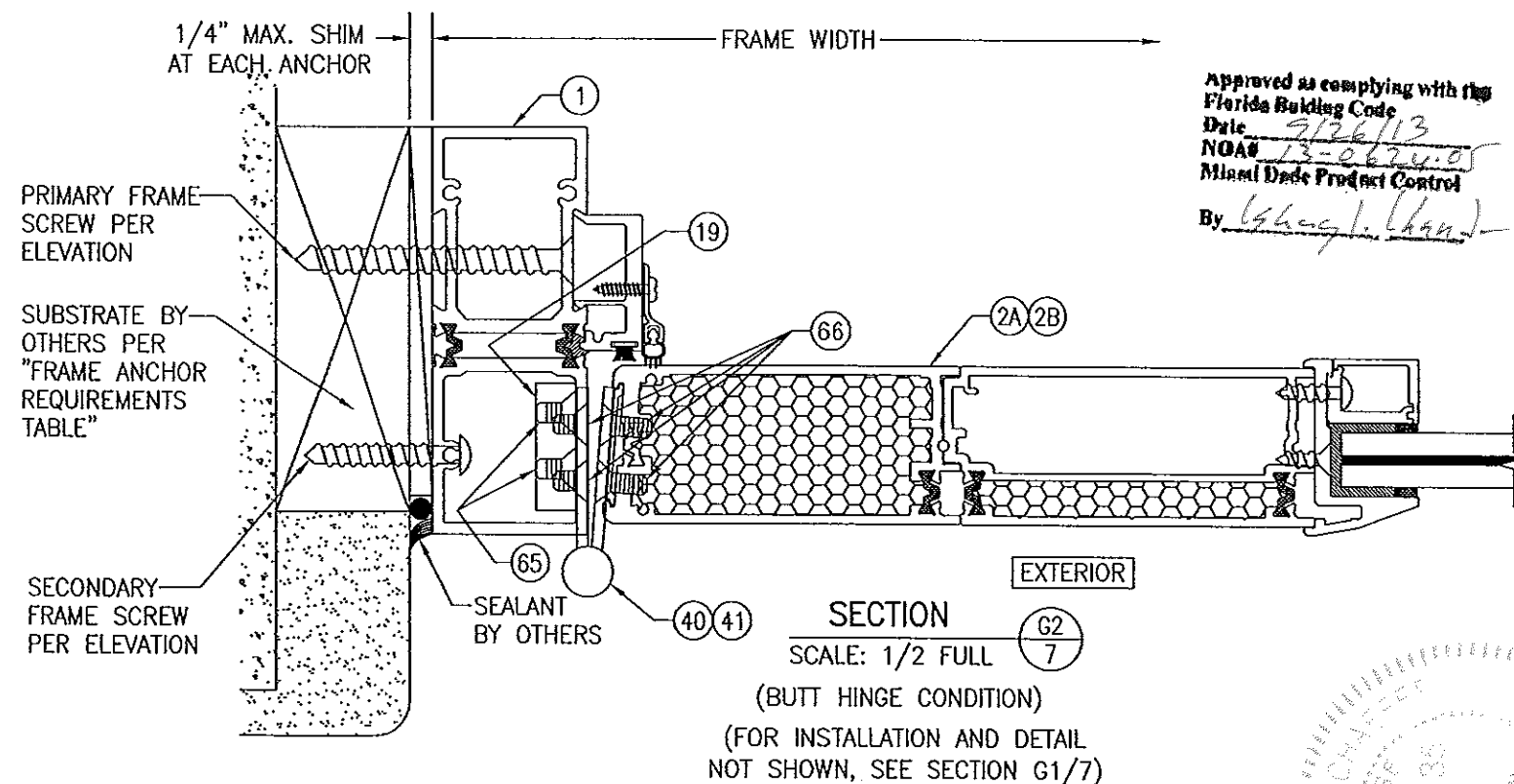
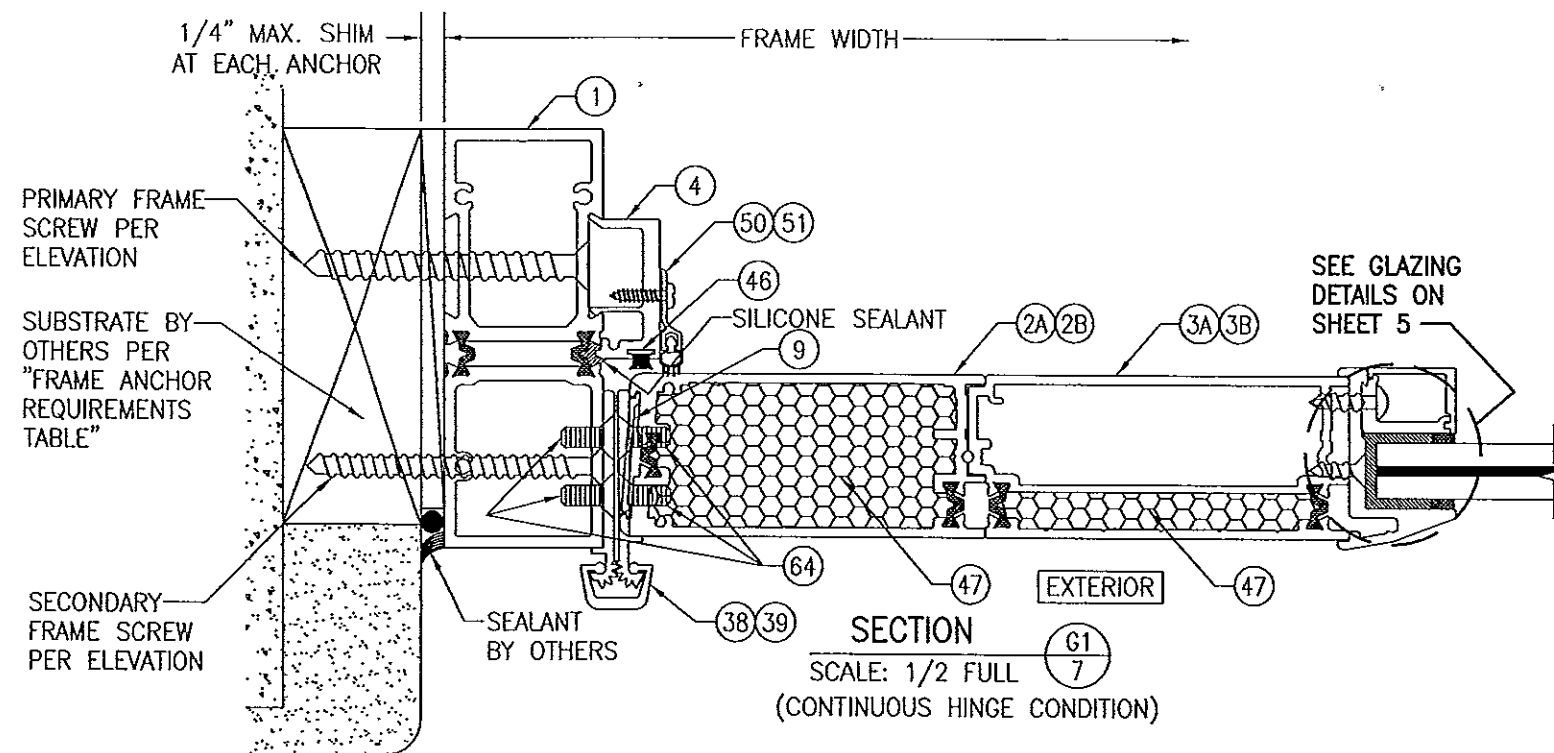
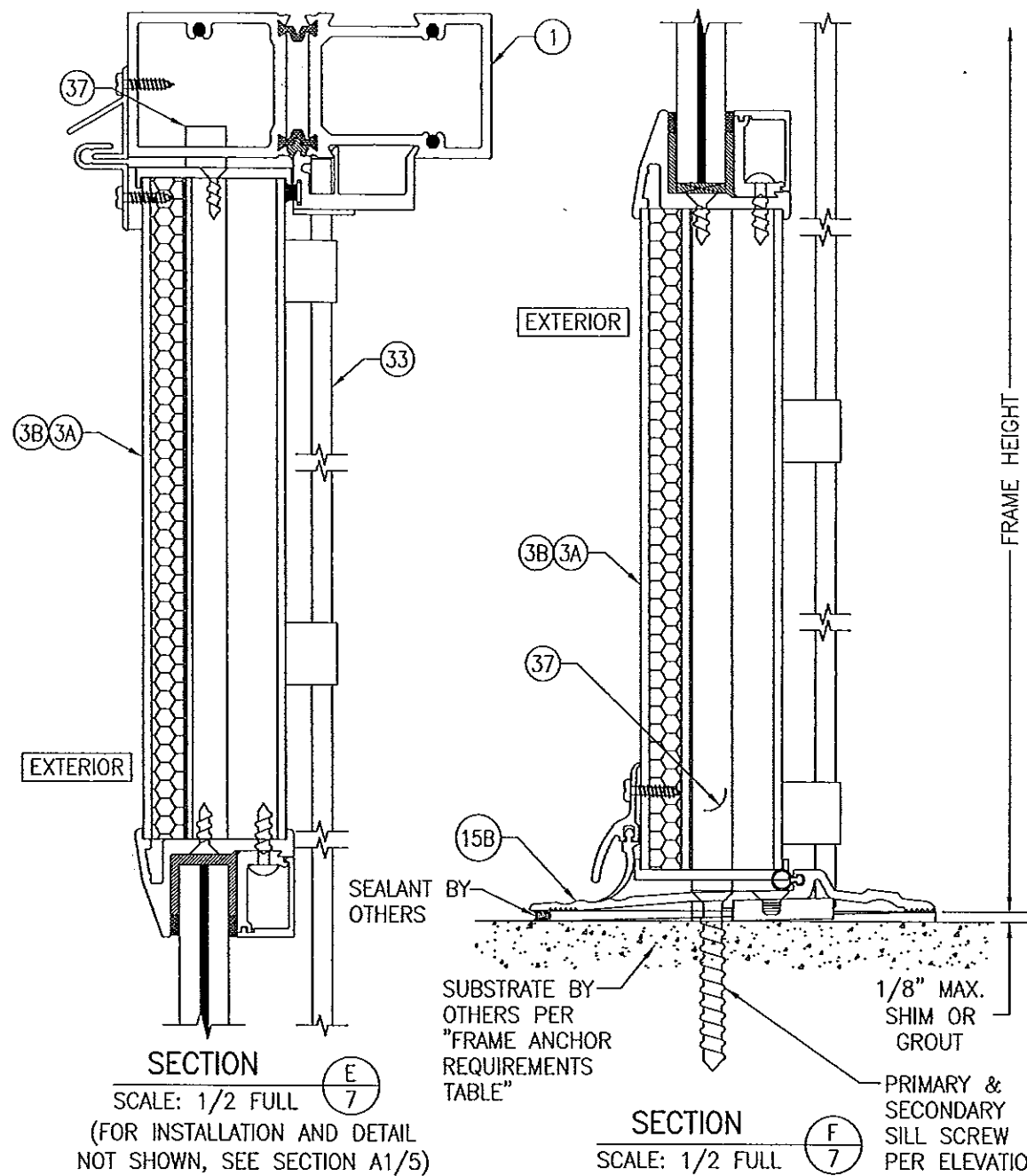


SECTION D2  
6  
SCALE: 1/2" FULL  
(INACTIVE PANEL)  
(FOR INSTALLATION AND DETAIL  
NOT SHOWN, SEE SECTION D1/6)

Approved as complying with the  
Florida Building Code  
Date 9/26/13  
NOA# 13-0676.05  
Miami Dade Product Control  
By Khang L. Yank

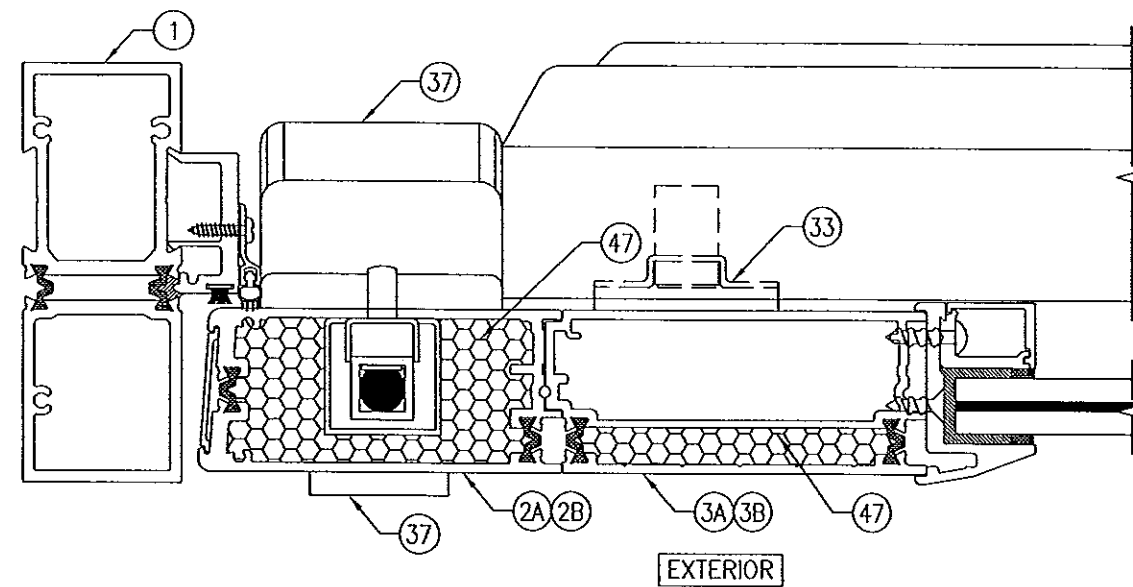
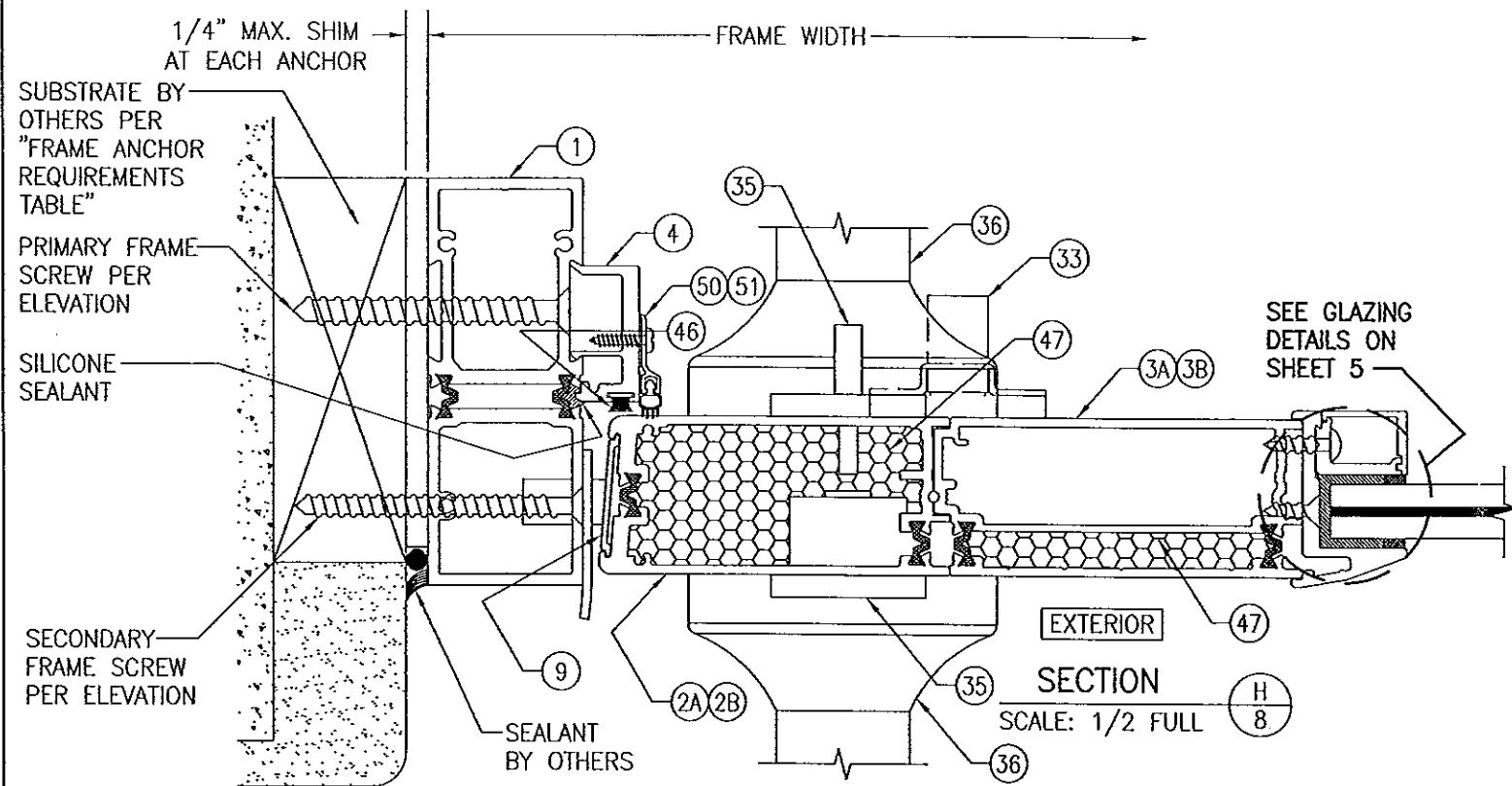
DRAWING NO. <b>1862</b>	REV.	CERTIFICATION 	DRAWING TITLE <b>FLT-400 THERMAL ALUMINUM GLAZED IMPACT OUT-SWING DOOR</b>	CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A. (CA 6809)</b> 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	MANUFACTURER <b>CROSS ALUMINUM PRODUCTS, INC.</b> 1770 MAYFLOWER RD. NILES, MI 49120 800-806-3667	NO.	REVISION	DESCRIPTION	BY	DATE	DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
											PLOT: 1=2	DATE: 04/11/13



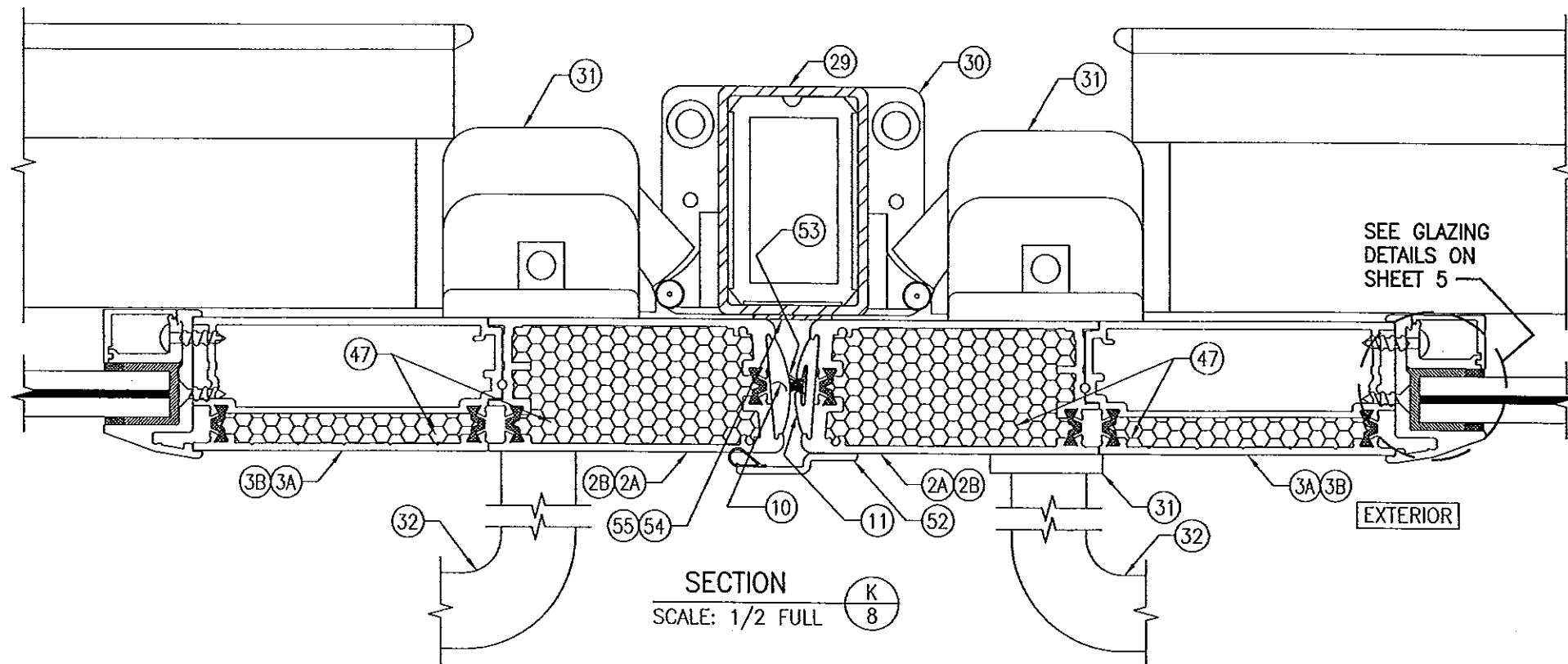


Approved as complying with the  
Florida Building Code  
Date: 9/26/13  
NOA# 13-0624-0  
Miami Dade Product Control  
By: [Signature]

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 04/11/13	
NO.	REVISION DESCRIPTION	DATE	BY
DRAWING TITLE: FLT-400 THERMAL ALUMINUM GLAZED IMPACT OUT-SWING DOOR			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: CROSS ALUMINUM PRODUCTS, INC.	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		1770 MAYFLOWER RD. NILES, MI 49120 800-806-3667	
CERTIFICATION: SEP 17 2013		P.E. NO. 44135	
DRAWING NO. 1862		REV.	
SHEET NO. 7		OF 11	



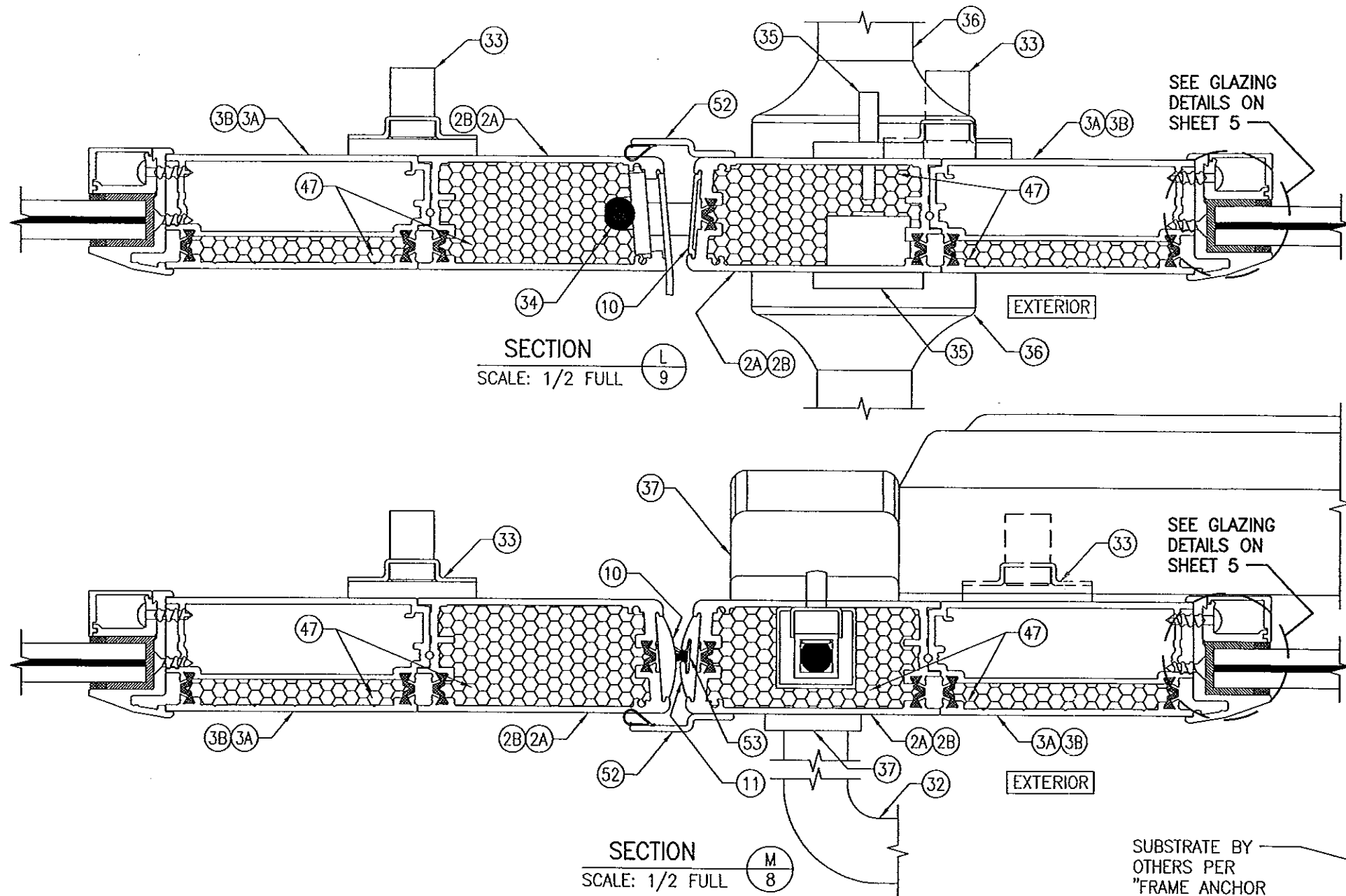
SECTION  
SCALE: 1/2 FULL (J/8)  
(FOR INSTALLATION AND DETAIL  
NOT SHOWN, SEE SECTION H/8)



SECTION  
SCALE: 1/2 FULL (K/8)

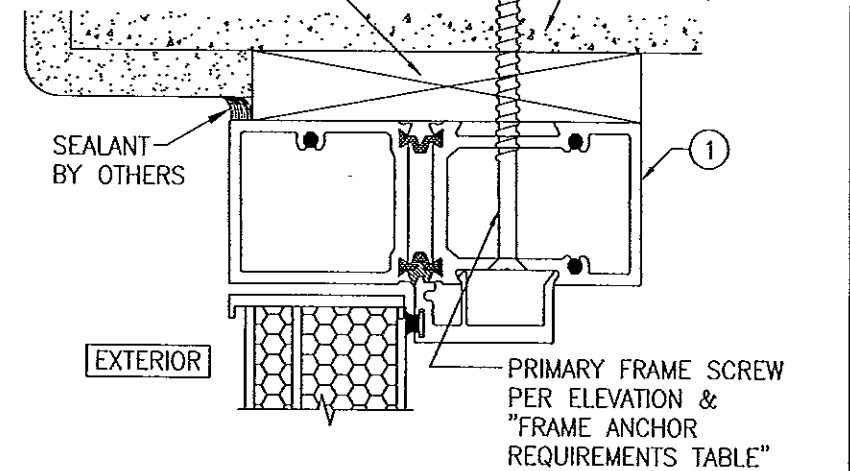
Approved as complying with the  
Florida Building Code  
Date: 9/26/13  
NOA# 13-0624-05  
Miami Dade Product Control  
By: [Signature]

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 04/11/13	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE FLT-400 THERMAL ALUMINUM GLAZED IMPACT OUT-SWING DOOR			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER CROSS ALUMINUM PRODUCTS, INC. 1770 MAYFLOWER RD. NILES, MI 49120 800-806-3567	
CERTIFICATION SEP 17 2013 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1862	
REV.		SHEET NO. 8 OF 11	



SEE GLAZING  
DETAILS ON  
SHEET 5

CONTINUOUS WOOD MEMBER LESS IN  
THICKNESS THAN A 2X<sub>L</sub> BUCK TO  
BE MIN. 4 1/4" DEEP (NOT  
REQUIRED WHEN SHIM SPACE IS  
WITHIN ALLOWABLE DIMENSIONS  
SHOWN IN SECTIONS).



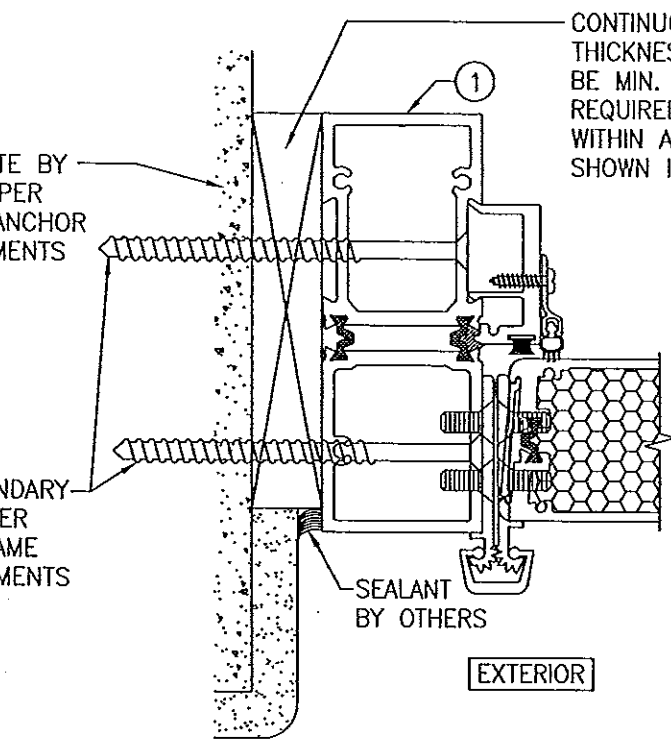
**OPTIONAL DIRECT MOUNT DETAIL  
TO SUBSTRATE WITH SPACER AT HEAD**  
(FOR DETAIL NOT SHOWN, SEE OTHER HEAD SECTIONS)

Approved as complying with the  
Florida Building Code  
Date 9/26/12  
NOA# 73-0624-05  
Miami Dade Product Control  
By 146-91-146

SUBSTRATE BY  
OTHERS PER  
"FRAME ANCHOR  
REQUIREMENTS  
TABLE"

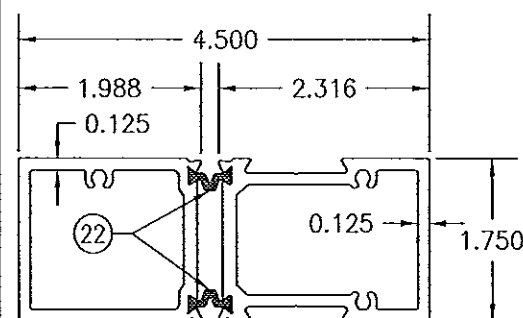
PRIMARY & SECONDARY  
FRAME SCREWS PER  
ELEVATION & "FRAME  
ANCHOR REQUIREMENTS  
TABLE"

CONTINUOUS WOOD MEMBER LESS IN  
THICKNESS THAN A 2X<sub>L</sub> BUCK TO  
BE MIN. 4 1/4" DEEP (NOT  
REQUIRED WHEN SHIM SPACE IS  
WITHIN ALLOWABLE DIMENSIONS  
SHOWN IN SECTIONS).

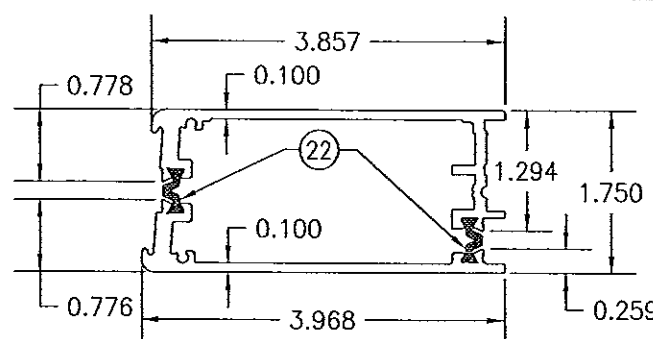


**OPTIONAL DIRECT MOUNT DETAIL  
TO SUBSTRATE WITH SPACER AT SIDES**  
(FOR DETAIL NOT SHOWN, SEE OTHER SIDE SECTIONS)

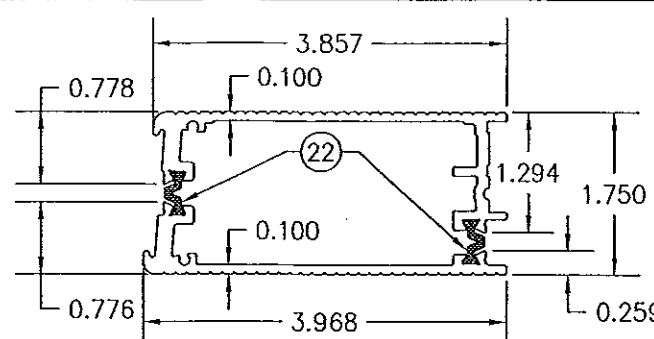
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 04/11/13	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE			
FLT-400 THERMAL ALUMINUM GLAZED IMPACT OUT-SWING DOOR			
CONSULTANTS		MANUFACTURER	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		CROSS ALUMINUM PRODUCTS, INC. 1770 MAYFLOWER RD. NILES, MI 49120 800-806-3667	
CERTIFICATION			
SEP 17 2013			
WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO.		REV.	
1862			
SHEET NO.			
9 OF 11			



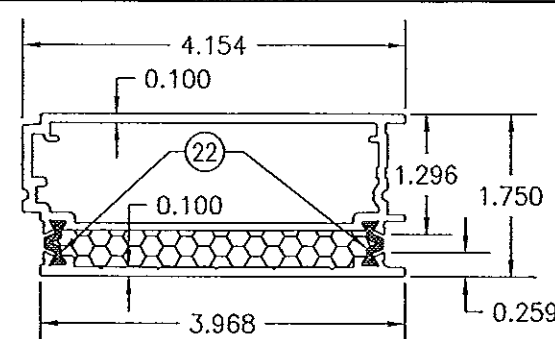
① HEAD & JAMB FRAME



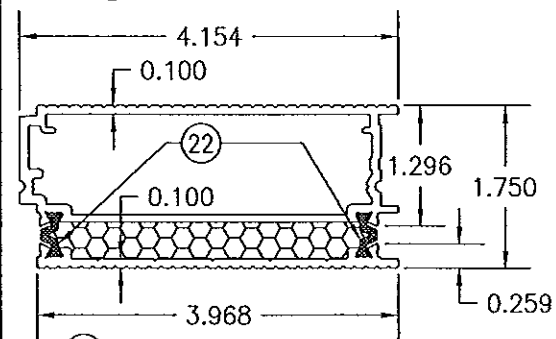
②A MEETING & HINGE  
VERTICAL PANEL SLATS  
(SMOOTH FINISH)



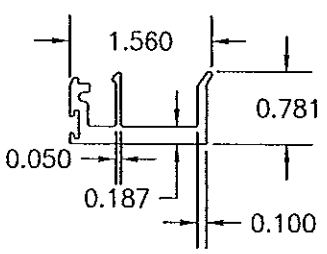
②B MEETING & HINGE  
VERTICAL PANEL SLATS  
(FLUTED FINISH)



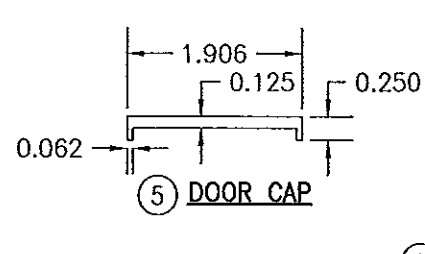
③A INTERMEDIATE VERTICAL  
PANEL SLATS  
(SMOOTH FINISH)



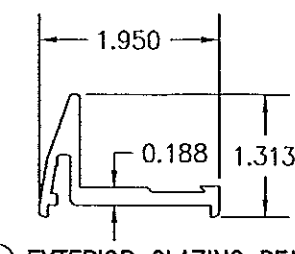
③B INTERMEDIATE VERTICAL  
PANEL SLATS  
(FLUTED FINISH)



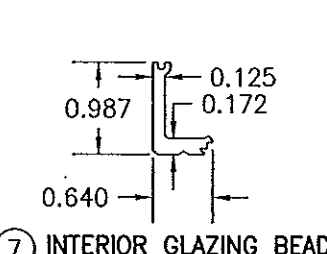
④ DOOR STOP



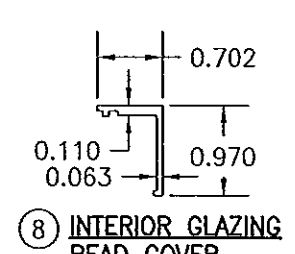
⑤ DOOR CAP



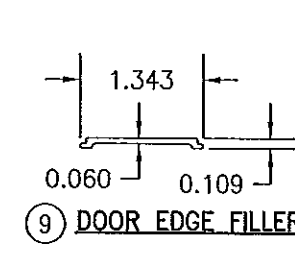
⑥ EXTERIOR GLAZING BEAD



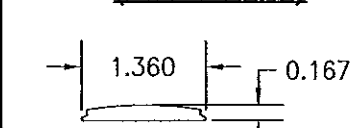
⑦ INTERIOR GLAZING BEAD



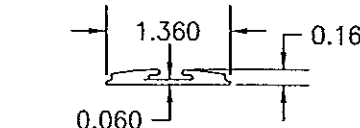
⑧ INTERIOR GLAZING  
BEAD COVER



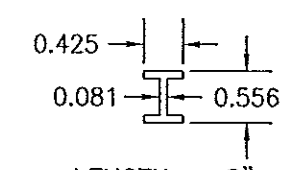
⑨ DOOR EDGE FILLER



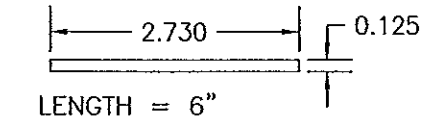
⑩ INACTIVE PANEL EDGE  
FILLER



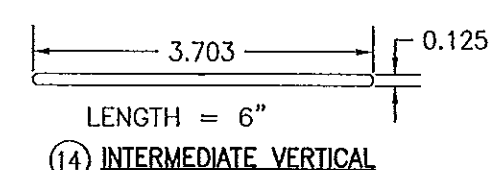
⑪ ACTIVE PANEL EDGE  
FILLER



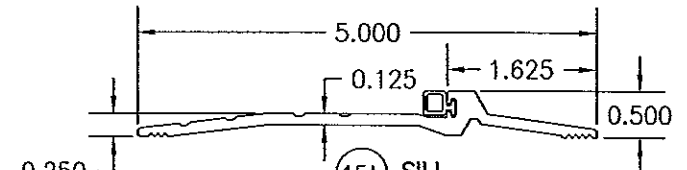
⑫ DOOR SPACER  
(ALLOWS PANEL  
MEMBERS TO  
REVERSE DIRECTION)



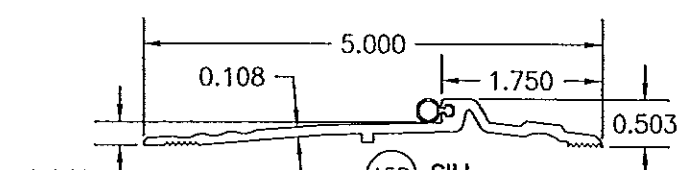
⑬ LOCK & HINGE VERTICAL  
PANEL SLAT REINFORCEMENT  
(1 REQ'D AT ALL HINGE  
SLATS; 2 REQ'D AT  
SURFACE LOCK BOLT  
LOCATIONS WITH LOCK  
OPTIONS 2 & 3)



⑭ INTERMEDIATE VERTICAL  
PANEL SLAT  
REINFORCEMENT

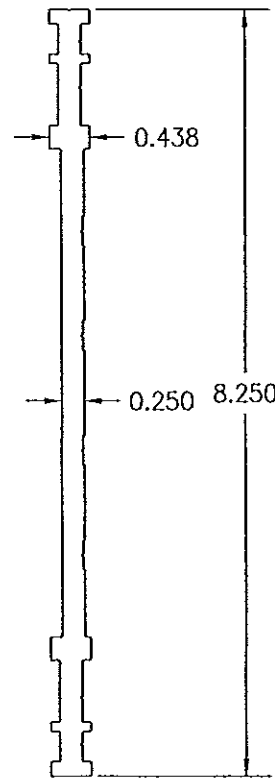


⑮A SILL



⑮B SILL

Approved as complying with the  
Florida Building Code  
Date: 9/16/13  
NOA# 13-0624-05  
Miami Dade Product Control  
By: [Signature]



⑲ BUTT HINGE BACK-UP PLATE

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 04/11/13
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE <b>FLT-400 THERMAL ALUMINUM GLAZED IMPACT OUT-SWING DOOR</b>	
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A. (CA 6809)</b> 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
MANUFACTURER <b>CROSS ALUMINUM PRODUCTS, INC.</b> 1770 MAYFLOWER RD. NILES, MI 49120 800-806-3667	
CERTIFICATION <b>SEP 17 2013</b> <b>WARREN W. SCHAEFER, P.E.</b> P.E. NO. 44138	
DRAWING NO. 1862	REV.
SHEET NO. 10	OF 11

